

**CONTRACT CHANGE ORDER MEMORANDUM**

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TO: Tony Anziano, Program Manager /			FILE: <b>E.A.</b> 04 - 0120F4	
FROM: Darryl Schram, Senior TE			<b>CO-RTE-PM</b> SF-80-13.2/13.9	
			<b>FED. NO.</b>	
CCO#: <b>169</b>	SUPPLEMENT#: <b>0</b>	Category Code: <b>CHPA</b>	CONTINGENCY BALANCE (incl. this change) <b>\$92,835,273.99</b>	
COST: <b>\$179,042.00</b> INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: <b>\$0.00</b>			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
<b>CCO DESCRIPTION:</b> Bikepath Handrail Modification			<b>PROJECT DESCRIPTION:</b> CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: <b>2490</b> Day(s)	Time Adj. This Change: <b>0</b> Day(s)	Previously Approved CCO Time Adjustments: <b>501</b> Day(s)	Percentage Time Adjusted: (including this change) <b>20</b> %	Total # of Unreconciled Deferred Time CCO(s): (including this change) <b>3</b>

**THIS CHANGE ORDER PROVIDES FOR:**

(1) Revising the orientation of the bikepath railing at the E2/W2 belvedere sections and providing shop drawings for the modified railing.

RFI 1903 directed the bikepath railing be installed vertical (plumb) in the transverse direction and perpendicular (to the grade) in the longitudinal direction. This change order revises shop drawings to detail railing sections at the belvederes vertical (plumb) in the both the transverse and longitudinal directions in order to be consistent with the Skyway project belvedere railing. The railing in transition areas will also be revised to provide a smooth transition from the orientation of the railing on the rest of the bikepath to the orientation of the railing on the belvedere sections.

(2) Replacing the Panel Point (PP) 119 (E2 belvedere) railing divider with continuous rail.

The railing section at PP 119 (E2 belvedere) will be revised from three rail sections to one continuous rail to match the rest of the bridge.

(3) Performing bikepath railing adjustability and base plate connection mockups.

Mockups will be performed to confirm constructability of field installation tolerances that were revised under Contract Change Order (CCO) 195 S1 "Bikepath Railing Tolerances (Field)."

(4) Furnishing shims to align the top rail.

Shims will be procured to achieve architectural alignment of the bikepath rails in accordance with the procedure developed by the mockups and CCO 195 S1 will implement this procedure to install these shims.

(5) Adding PTFE to the base plates of the railing divider sliding posts.

PTFE sheets will be added to the base plates to improve the sliding performance of the divider rail.

(6) Eliminating the bikepath railing base plate bolt caps.

Base plate bolt caps will not be installed in order to allow thermal movement to occur without damaging the bolts. Structures Maintenance (Ken Brown) has also requested bolt caps be eliminated since they will be extremely difficult to remove for periodic maintenance inspections. A credit will be provided for not furnishing and installing these bolt caps.

This change order resolves the costs associated with Contractor Request for Information (RFI) number 2212 with respect to changes listed above.

The total cost of this change order is \$179,042.00 lump sum, which can be financed from the contingency fund. A detailed cost analysis is on file.

No time adjustment is warranted as this change order does not affect the controlling operation.

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This change order has concurrence from William Casey (Supervising TE), Rich Foley (HQ Oversight), Wenyi Long (Bridge Design), Lina Ellis (Maintenance), and Jing Chen (District Design).

<b>CONCURRED BY:</b>			<b>ESTIMATE OF COST</b>		
Construction Engineer:	William Casey, Sup TE	Date 11/1/10	THIS REQUEST		TOTAL TO DATE
Bridge Engineer:	CT Oversight, Wenyi Long, P.E.	Date 12/26/12	ITEMS	\$0.00	\$0.00
Project Engineer:	District Design, Jing Chen	Date 12/26/12	FORCE ACCOUNT	\$0.00	\$0.00
Project Manager:		Date	AGREED PRICE	\$179,042.00	\$179,042.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$0.00
Environmental:		Date	<b>TOTAL</b>	<b>\$179,042.00</b>	<b>\$179,042.00</b>
Other (specify):	HQ, Rich Foley	Date 11/3/10	<b>FEDERAL PARTICIPATION</b>		
Other (specify):	Struct. Maint, Lina Ellis	Date 12/27/12	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:	HQ, Larry Salhaney	Date 11/16/10	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue/Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE    PERCENT		
					